Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 07-11-19

Lab ID	:	CP-2020-01-17-46
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division,
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing balance works to existing Samudaya Bhavana at Veeranjaneya temple in Ward No 04.
Agency	:	Sri.Jayanath.T , No:152, 2nd Block, 3rd Stage , Basaveshwaranagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/93/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.54	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 03-12-19

Lab ID	:	**CP-2020-01-17-46**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing balance works to existing Samudaya Bhavana at Veeranjaneya temple in Ward No 04.
Agency	:	Sri.Jayanath.T , No:152, 2nd Block, 3rd Stage , Basaveshwaranagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/93/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/11/2019

ID	:	CP-2020-01-17-46
tomer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
lress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
ject Name	:	Providing balance works to existing Samudaya Bhavana at Veeranjaneya temple in Ward No 04.
ency	:	Sri.Jayanath.T , No:152, 2nd Block, 3rd Stage , Basaveshwaranagara, Bangalore.
stomer's Reference	:	EE(YNK.D)E-PMT-21/W.O/93/2018-19
urce of Sample	:	Sample supplied by Agency
mple Condition	:	Satisfactory
te of Receipt	:	23-11-19
stomer ID	:	Roof Concrete
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	28/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	21/11/2019	28/11/2019	151.64 X 150.65 X 149.74	22845	8.166	429.5	18.8	18.5
2	Roof Concrete	M20	21/11/2019	28/11/2019	149.51 X 150.70 X 150.01	22531	8.097	407.4	18.1	
3	Roof Concrete	M20	21/11/2019	28/11/2019	149.19 X 150.72 X 149.47	22487	8.881	417.1	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/12/2019

Lab ID	:	CP-2020-01-17-46
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing balance works to existing Samudaya Bhavana at Veeranjaneya temple in Ward No 04.
Agency	:	Sri.Jayanath.T , No:152, 2nd Block, 3rd Stage , Basaveshwaranagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/93/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-11-19
Customer ID	:	Staircase Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Staircase Concrete	M20	25/11/2019	02/12/2019	150.28 X 150.03 X 151.74	22546	8.166	425.1	18.9	18.7
2	Staircase Concrete	M20	25/11/2019	02/12/2019	150.84 X 149.89 X 151.51	22610	8.097	417.2	18.5	
3	Staircase Concrete	M20	25/11/2019	02/12/2019	151.01 X 149.77 X 150.34	22618	8.881	425.9	18.8	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/12/2019

ID	:	CP-2020-01-17-46
tomer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
dress	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
ject Name	:	Providing balance works to existing Samudaya Bhavana at Veeranjaneya temple in Ward No 04.
gency	:	Sri.Jayanath.T , No:152, 2nd Block, 3rd Stage , Basaveshwaranagara, Bangalore.
ustomer's Reference	:	EE(YNK.D)E-PMT-21/W.O/93/2018-19
ource of Sample	:	Sample supplied by Agency
ample Condition	:	Satisfactory
ate of Receipt	:	04-12-19
Customer ID	:	Flagging Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M20	02/12/2019	09/12/2019	149.47 X 149.30 X 151.86	22317	8.166	422.8	18.9	18.4
2	Flagging Concrete	M20	02/12/2019	09/12/2019	151.78 X 151.57 X 151.07	23006	8.097	416.4	18.1	
3	Flagging Concrete	M20	02/12/2019	09/12/2019	149.98 X 150.15 X 151.89	22520	8.881	405.9	18.0	

Note:
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-01-17-46** **Date: 06-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-01-17-46** **Date: 22-11-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing balance works to existing Samudaya Bhavana at Veeranjaneya temple in Ward No 04.
Agency	:	Sri.Jaynnath.T , No:152, 2nd Block, 3rd Stage , Basaveshwaranagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/93/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-11-19
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS . 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9 5 and 10)
Date of test	:	19-11-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	201	16322	32.741	2005.9	2012.4	Not less than 1800Kg/m^3
2	404	201	202	16403	32.318	1970.3		
3	401	202	199	16119	33.224	2061.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2020-01-17-46** **Date: 22-11-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	202	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	200	199	
3	403	202	201	
4	400	201	203	
5	401	203	200	
6	401	201	199	
7	401	200	202	
8	404	199	202	
9	402	200	200	
10	403	202	200	
11	403	202	199	
12	400	200	201	
13	399	200	202	
14	400	200	202	
15	403	202	199	
16	401	201	202	
17	401	200	200	
18	401	201	199	
19	400	202	203	
20	400	202	200	
Average of 20	401	201	201	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-17-46 Date: 22/11/2019

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing balance works to existing Samudaya Bhavana at Veeranjaneya temple in Ward No 04.

Agency : Sri.Jayanath.T , No:152, 2nd Block, 3rd Stage , Basaveshwaranagara, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-21/W.O/93/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-11-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	15/11/2019	22/11/2019	150.84 X 151.95 X 150.77	22919	8.166	415.9	18.1	18.4
2	Lintel Concrete	M20	15/11/2019	22/11/2019	149.65 X 151.64 X 150.36	22693	8.097	418.6	18.4	
3	Lintel Concrete	M20	15/11/2019	22/11/2019	151.57 X 149.62 X 150.33	22678	8.881	424.6	18.7	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/12/2019

Lab ID	:	CP-2020-01-17-46
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing balance works to existing Samudaya Bhavana at Veeranjaneya temple in Ward No 04.
Agency	:	Sri.Jayanath.T , No:152, 2nd Block, 3rd Stage , Basaveshwaranagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-21/W.O/93/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-11-19
Customer ID	:	Lintel Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	15/11/2019	13/12/2019	149.59 X 151.12 X 150.78	22606	8.287	534.5	23.6	23.3
2	Lintel Concrete	M20	15/11/2019	13/12/2019	150.57 X 149.97 X 149.82	22581	8.624	511.5	22.7	
3	Lintel Concrete	M20	15/11/2019	13/12/2019	149.38 X 150.12 X 149.77	22425	8.945	528.3	23.6	

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